

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011417

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F24H1/10, E03D9/08, D06F39/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F24H1/10, E03D9/08, D06F39/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 1-35256 B2 (Matsushita Electric Industrial Co., Ltd.),	1-2, 5-7, 11-16
Y	24 July, 1989 (24.07.89),	3-4, 8-10, 26-37
A	Column 2, lines 12 to 15; column 3, lines 31 to 43; column 4, lines 34 to 36; Figs. 1 to 9 (Family: none)	17-25
X	JP 58-62447 A (Matsushita Electric Industrial Co., Ltd.),	1-2, 5-6, 10-15
Y	13 April, 1983 (13.04.83),	3-4, 7-9, 16, 26-37
A	Page 1, lower right column, line 7 to page 2, upper left column, line 6; page 2, upper right column, line 18 to lower left column, line 16; Figs. 1 to 9 (Family: none)	17-25

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
02 December, 2004 (02.12.04)Date of mailing of the international search report
21 December, 2004 (21.12.04)Name and mailing address of the ISA/
Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 1-25238 Y (Matsushita Electric Industrial Co., Ltd.),	1, 3, 5-8, 11-15
Y	28 July, 1989 (28.07.89),	2, 4, 9-10, 16, 26-37
A	Column 2, lines 8 to 22; column 3, line 20 to column 6, line 6; Figs. 1 to 5 (Family: none)	17-25
X	JP 50-73048 U (Akihiro INOKARI),	1, 4, 6-7, 9, 11-15, 32-35
Y	26 June, 1975 (26.06.75),	2-3, 5, 8, 10, 16, 26-31, 36-37
A	Figs. 1 to 3 (Family: none)	17-25
X	JP 59-65337 U (Dennetsu Kogyo Kabushiki Kaisha),	1, 6, 10-15
Y	01 May, 1984 (01.05.84),	2-5, 7-9, 16, 26-37
A	Figs. 1 to 3 (Family: none)	17-25
X	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 193546/1982 (Laid-open No. 96525/1984)	1, 6, 11-16, 36
Y	(Matsushita Electric Industrial Co., Ltd.),	2-5, 7-10, 26-35, 37
A	30 June, 1984 (30.06.84), Description; page 2, lines 6 to 10; Figs. 1 to 3 (Family: none)	17-25
Y	JP 9-289076 A (Matsushita Electric Industrial Co., Ltd.),	26-31
	04 November, 1997 (04.11.97), Par. No. [0022]; Fig. 4 (Family: none)	
Y	JP 63-107695 U (Kabushiki Kaisha Moriya Studio),	32-35
	11 July, 1988 (11.07.88), Fig. 7 (Family: none)	
A	JP 3033412 U (Haimetaru Kogyo Kabushiki Kaisha),	17-25
	30 October, 1996 (30.10.96), (Family: none)	
X	JP 58-40 A (Matsushita Electric Industrial Co., Ltd.),	1, 5-7, 11-15
Y	05 January, 1983 (05.01.83),	2-4, 8-10, 16, 26-37
A	Figs. 1 to 4 (Family: none)	17-25